

Planting Guide

Plant Materials Center Releases Bismarck, ND and Bridger, MT



1
**Antelope Germplasm
Slender White
Prairieclover**



2
**Bismarck Germplasm
Purple
Prairieclover**



3
**Bismarck Germplasm
Stiff
Sunflower**



4
**Medicine Creek
Germplasm
Maximilian Sunflower**



5
**Bismarck Germplasm
Narrow-leaved
Purple Coneflower**



**Seed
of each
Species**

Planting Guide for Five Native Forbs/Legumes Released for Conservation Use

Area of Adaptation: Plant adaptation to site and climatic conditions of the area are critical to success of the planting. These five native forb and legume releases originated from single or multiple natural site collections in either North Dakota or South Dakota. Anticipated areas of adaptation include those sites suitable for the species in the Northern Great Plains and Midwest Regions.

	<i>Dalea candida</i> Slender White Prairieclover	<i>Dalea purpurea</i> Purple Prairieclover	<i>Echinacea angustifolia</i> Narrow-leaved Purple Coneflower	<i>Helianthus maximiliani</i> Maximilian Sunflower	<i>Helianthus pauciflorus</i> Stiff Sunflower
Origin	western North Dakota	central South Dakota	11 sites in central and western North Dakota	central South Dakota	9 sites in central and western North Dakota
Seeds Per Pound	278,000	300,000	128,000	250,000	85,000
Seeding Date	spring	spring	fall dormant	spring or fall dormant	spring or fall dormant
Seed Treatment	scarification	scarification	cold stratification	none	none
Average Seeding Rates with Mixture*	1/4 to 1 PLS pound per acre	1/4 to 1 PLS pound per acre	1/4 to 1 PLS pound per acre	1/10 to 1/4 PLS pound per acre	1/4 to 1 PLS pound per acre
Site	typical prairies, open woodland	typical prairies, drier sites	typical prairies, especially shallow soils	moist sites on heavier soils	broadly adapted upland or lowland
Spread	seed	seed	seed, rootstock	seed, rhizomes	seed, rhizomes
Flower	white, July-August	purple, July-August	purple, June-July	yellow, July-September	yellow, July-August
Mature Height	1 to 2 feet	1 to 2 feet	1/2 to 2 feet	3 to 6 feet	2 to 3 feet

*The lower rate is generally used. Higher rates are used on sculptured, site-specific seedings.

Seeding Rate Information on a Pure Live Seed (PLS) Basis

Species	Seeds/sq ft (1 lb/ac)	Seeds/sq ft (1/2 lb/ac)	Seeds/sq ft (1/4 lb/ac)	Seeds/sq ft (1/10 lb/ac)
<i>Dalea candida</i> Slender White Prairieclover	6.3	3.2	1.6	0.6
<i>Dalea purpurea</i> Purple Prairieclover	6.9	3.4	1.7	0.7
<i>Echinacea angustifolia</i> Narrow-leaved Purple Coneflower	2.9	1.5	0.7	0.3
<i>Helianthus maximiliani</i> Maximilian Sunflower	5.7	2.9	1.4	0.6
<i>Helianthus pauciflorus</i> Stiff Sunflower	2.0	1.0	0.5	0.2